#### **OUTDOOR ORNAMENTALS**

Note: Before treating a large number of ornamental plants with Gowan Malathion 8 Flowable alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7-10 days prior to treating large areas to reduce the possibility of plant injury.

CROP	REI (UDS)	RATE	PESTS	COMMENTS
FLOWERS, SHADE TREES and SHRUBS	(HRS)	1 pint in 100 gals of water as a dilute spray	Aphids, Euonymus scales, European pine shoot moths, Four-lined leaf bugs, Japanese beetle adults, Lace scales, Mealybugs, Millipedes, Oyster shell scales, Potato leafhoppers, Rose leafhoppers, Scurfy scales, Spider mites, Springtails, Sowbugs, Tarnished plant bugs, Thrips, Whiteflies	CAUTION: Avoid use on certain ferns including Boston, Maidenhair and Pteris, as well as some species of Crassula and Canaetri Juniper. For Oyster shell, Fletch, Juniper, Oak kermes and Pine needle scales apply when scale crawlers have settled on foliage. The maximum number of applications per year is 2; and the minimum retreatment interval is 10 days.
	12	1.25 pints in 100 gals of water as a dilute spray	Azalea scales, Bagworms, Birch leafminers, Boxwood leafminers, Fletch scales, Florida-red scales, Juniper scales, Magnolia scales, Oak kermes, Pine leaf scales, Tent caterpillars	
		1.6 pints in 100 gals of water	Black scale crawlers, Monterey pine scales	
		2 pints in 100 gals of water	Pine needle scales, Wax scales	

SLASH PINE, PINE SEED ORCHARDS, and CHRISTMAS TREE PLANTATIONS

			•	TMAS TREE PLANTATIONS
CROP	REI (HRS)	PESTS	RATE	COMMENTS
SLASH PINE, and PINE SEED ORCHARDS		Slash pine flower thrips, European pine sawfly	For ground application, mix 0.4 gallons of Malathion 8 Flowable in 100 gallons of water.	Apply 3/4 gallon of the mixture per tree on the smallest flowering trees. Mist blowers or airblast sprays may be used.  The maximum application rate is 3.2 pints product per acre; the maximum number of applications per year/growing seasnon is 2; and the minimum retreatment interval is 7 days.
	12		For air application, mix 0.4 gallons of Malathion 8 Flowable in at least 10 gallons of water.	Apply a minimum of 10 gallons of mixture per acre. Make two applications, the first when female flowers are in twig bud stage, the second one week prior to maximum flower receptivity to pollen.  The maximum application rate is 3.2 pints product per acre; the maximum number of applications per year/growing season is 2; and the minimum retreatment interval is 7 days.
CHRISTMAS TREE PLANTATIONS		Slash pine flower thrips, European pine sawfly	For ground application, mix 0.4 gallons of Malathion 8 Flowable in 100 gallons of water.	Apply 3/4 gallon of the mixture per tree on the smallest flowering trees. Mist blowers or airblast sprays may be used.  The maximum application rate is 3.2 pints product per acre; the maximum number of applications per year is 2.
	12		For air application, mix 0.4 gallons of Malathion 8 Flowable in at least 10 gallons of water.	Apply a minimum of 10 gallons of mixture per acre. Make two applications, the first when female flowers are in twig bud stage, the second one week prior to maximum flower receptivity to pollen.  The maximum application rate is 3.2 pints product per acre; the maximum number of applications per year is 2.

#### **MOSQUITO CONTROL**

#### AROUND THE OUTSIDE OF BUILDINGS

Around lower outside foundations of homes, yards - spot treatment only, out-door garbage cans, and garbage dumps: Apply 0.2439 gallons of Malathion 8 Flowable undiluted per 1000 sq. ft. on painted surfaces. Apply 0.2439 gallons of Malathion 8 Flowable undiluted per 1000 sq. ft. on unpainted surfaces.

#### **CULL FRUIT AND VEGETABLE DUMP**

Around cull fruit and vegetable dumps: Apply 6.857 pounds of Malathion 8 Flowable undiluted per 1000 sq. ft. on painted surfaces. Apply 2 gallons of Malathion 8 Flowable undiluted per 1000 sq. ft. on unpainted surfaces.

#### **APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION**

Apply this product only through sprinkler, including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move, or drip (including surface and subsurface) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Mix in clean supply tank the specified amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow specified label rates, application timing, and other directions and precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

Do not apply when wind speed favors drift beyond the area intended for treatment.

#### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Gowan Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of a least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

#### DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

#### STORAGE AND DISPOSAL

DO NOT CONTAMINATE water, food or feed by storage or disposal.

**PESTICIDE STORAGE**: Gowan Malathion 8 Flowable should be stored in the original unopened container in a secure, dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F).

**PESTICIDE DISPOSAL**: To avoid wastes, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry). **CONTAINER DISPOSAL**: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. After cleaning, if recycling is not available, puncture and dispose of in a sanitary landfill.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300 For other product information, contact Gowan Company or see Material Safety Data Sheet.

#### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILTY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. All such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE FULLEST EXTENT PERMITTED BY LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

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02-R0915



Reviewed on 07/01/2015

# 1 Identification

- · Product identifier
  - · Trade name: GOWAN MALATHION 8 FLOWABLE

EPA Registration No.: 10163-21

- · CAS Number: Active Ingredient: Malathion (79.5%), CAS:121-75-5
- · Relevant identified uses of the substance or mixture and uses advised against
  - · Sector of Use Agriculture
  - · Application of the substance / the mixture Agricultural insecticide
- · Details of the supplier of the safety data sheet
  - · Manufacturer/Supplier:

Gowan Company P.O. Box 5569 Yuma, Arizona 85366-5569

(928) 783-8844

- · Information department: sds@gowanco.com
- · Emergency telephone number:

Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300 Outside the U.S. & Canada: +011 (703) 527-3887

For medical emergency (Prosar®): (888) 478-0798

# 2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
  - · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07

- · Signal word: Warning
- · Hazard-determining components of labeling:

malathion (ISO)

· Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Hazard description: Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin.

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#### · Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

#### HAZARD INDEX:

- 4 Severe Hazard
- 3 Serious Hazard
- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- · HMIS-ratings (scale 0 4)



Health = 2Fire = 0

Reactivity = 0

#### HAZARD INDEX:

- 4 Severe Hazard
- 3 Serious Hazard
- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- · Other hazards
  - · Results of PBT and vPvB assessment
    - · **PBT**: Not applicable in US.
    - · vPvB: Not applicable in US.

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
  - · **Description:** Mixture of the substances listed below with nonhazardous additions.

	rous components:	
121-75-5	malathion (ISO)	79.5%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🗘 Acute Tox. 4, H302; Skin Sens. 1, H317	
71-36-3	butan-1-ol      Flam. Liq. 3, H226;    Eye Dam. 1, H318;    Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	3.1%

### 4 First-aid measures

- · Description of first aid measures
  - · General information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

- · After inhalation:
  - Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-

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mouth if possible.

• Call poison control center or doctor for further treatment advice.

#### · After skin contact:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

#### · After eye contact:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

#### · After swallowing:

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

#### · Information for doctor:

- · Most important symptoms and effects, both acute and delayed Unknown
- · Indication of any immediate medical attention and special treatment needed

  Malathion upon use may cause cholinesterase inhibition. Atropine is antidotal. May pose an aspiration pneumonia hazard. Contains petroleum distillates.

### 5 Fire-fighting measures

- · Extinguishing media
  - · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO2)

Sulphur dioxide (SO2)

Phosphorus trioxide

Methyl mercaptan

Hydrogen sulfide

Dimethyl sulfide

# $\cdot \textit{Advice for firefighters}$

Containers in fire may burst or explode from excessive heat. Stay well back from fire area. Vapors may travel along floor to ignition source and flash back.

· Protective equipment: Wear self-contained respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### 7 Handling and storage

### · Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
  - · Storage:
    - · Requirements to be met by storerooms and receptacles:

Store in a cool, dry, well-ventilated area.

The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F).

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
  - · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin.
- · Exposure controls
  - · Personal protective equipment:
    - · General protective and hygienic measures:
    - Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
    - Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
    - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
    - · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Body protection:

Handlers must wear:

Long-sleeved shirt and long pants

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• Chemical-resistant gloves

• Shoes plus socks

Physical and chemical properti	es
Information on basic physical and ch	nemical properties
General Information	
· Appearance:	v
· Form:	Liquid
· Color: · Odor:	Light amber
· Odour threshold:	Mercaptan Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 149 °C (> 300 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
$\cdot$ Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.21 g/cm³ (10.097 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Dispersible.
· Partition coefficient (n-octanol/wat	<b>ter</b> ): Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.

# 10 Stability and reactivity

- · Reactivity
  - · Chemical stability Stable under normal conditions

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· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Excessive heat

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Excessive heat.
- · Incompatible materials: Strong oxidizers
- · Hazardous decomposition products:

Carbon monoxide (CO)

Carbon dioxide

Sulfur dioxide

Phosphorus trioxide

Methyl mercaptan

Hydrogen sulfide

Dimethyl sulfide

No dangerous decomposition products known.

# 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:

· LD/L	C50 values	that are relevant for classification:
Oral	LD50	5400 mg/kg (rat)
		Male
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5.2 mg/l (rat)

- · Primary irritant effect:
  - · on the skin: Slightly irritating
  - · on the eye: Slight irritation
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· Carcinogenic categories

· IARC (I	nternational A	gency for	Research o	n Cancer)
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121-75-5 malathion (ISO)

3

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

# 12 Ecological information

· Toxicity

This pesticide is toxic to aquatic organisms, including fish and invertebrates. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce (Contd. on page 7)

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runoff that contains this product.

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
  - · Remark: Very toxic for fish
- · Additional ecological information:
  - · General notes:

Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

- · Results of PBT and vPvB assessment
  - · **PBT**: Not applicable.
  - · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

#### · Waste treatment methods

· Recommendation:

To avoid wastes, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

#### · Uncleaned packagings:

· Recommendation:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. After cleaning, if recycling is not available, puncture and dispose of in a sanitary landfill.

UN-Number	
$\cdot DOT$	Void
· ADR, IMDG, IATA	UN3082
UN proper shipping name	
· ADR	3082 Environmentally hazardous substances, liquid, n.o. (malathion (ISO))
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (malathion (ISO)), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (malathion (ISO))

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#### · Transport hazard class(es)

· ADR, IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles

· Label

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Product contains environmentally hazardous substances: malathion

(ISO)

· Marine pollutant: Yes

Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)

· Special precautions for user Warning: Miscellaneous dangerous substances and articles

Danger code (Kemler):EMS Number:F-A,S-F

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable

· Transport/Additional information:

· Special marking (ADR):

· Special marking (IATA):

• Quantity limitations On passenger aircraft/rail: No limit
On cargo aircraft only: No limit

 $\cdot ADR$ 

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ) 5L

• Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN ''Model Regulation'': US DOT:

For packages <30 Ga.: NOT REGULATED

For packages § 30 Ga.: UN3082, Environmentally hazardous

substances, liquid, n.o.s. (malathion (ISO)), 9, III

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture EPA /FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

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#### · SARA Title III

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

- · Proposition 65
  - · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenicity categories
  - · EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

121-75-5 malathion (ISO)

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

Not applicable

· Signal word:

(US EPA) CAUTION

· Hazard-determining components of labeling:

malathion (ISO)

· Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: GOWAN MALATHION 8 FLOWABLE EPA Registration No.: 10163-21

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Supply Chain
- · Contact: sds@gowanco.com
  - · Date of preparation / last revision 07/01/2015 / 4
  - · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

\* Data compared to the previous version altered.

US